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	DECLARATI	ON AND POWER	Attorney Docket No.	MIT-103	FEB 0	7 2000	
OF ATTORNEY FOR UTILITY		First Named Inventor	Kawasaki	THE WAY	CARRY CO		
OR DESIGN			CO	OMPLETE IF	KNOWN		
	PATENT A	APPLICATION	Application Serial Number	09/422,999			
	Declaration	□ Declaration	Filing Date	10/22/99			
	Submitted with	Submitted after Initial	Group Art Unit	1643			
	Initial Filing	Filing (surcharge	Examiner Name	Not yet assig	ned		
		37 CFR 1.16(e) required)					

As a below named inventor, I hereby declare that:								
My residence, post office addres	ss, and citizen:	ship are as stated	below next to my name.					
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:								
Genes Integrating Signal Transduction Pathways								
(Title of the Invention) the specification of which								
is attached hereto								
was filed on (MM/DD/YYYY)	10/22/9	99	as United States Application	on Serial Number	or PCT International			
Application Number 09/4	22,999	and was ame	nded on (MM/DD/YYYY)		(if applicable).			
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.								
I acknowledge the duty to disclo	ose informatio	n which is mater	ial to patentability as define	ed in 37 CFR 1.56	ó.			
I hereby claim foreign priority b certificate, or 365(a) of any PCI America, listed below and have or of any PCT international app	international also identified	application whi below, by chec	ch designated at least one co	ountry other than oplication for pate	the United States of ent or inventor's certificate,			
Prior Foreign Application			Foreign Filing Date	Priority	Certified Copy Attached?			
Number(s)	Co	untry	(MM/DD/YYYY)	Not Claimed	YES NO			
			a supplemental priority dat					
I hereby claim the benefit under				ation(s) listed belo	ow.			
Application Serial Num	ber(s)	Filing D	ate (MM/DD/YYYY) 10/23/98	Addition	nal provisional application			
60/103,30 /	60/105,507		10/25/70	serial nu	mbers are listed on a ental priority data sheet			

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09422,999

Page 2 of 3



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or

e following registered practitioners th: Customer Number OR Registered practitioner(Registration	a supplemental priority data sheet attac s to prosecute this application and to tra	nsact all business in the Patent Place Customer Number Bar Code Label Here	
e following registered practitioners th: Customer Number OR Registered practitioner(Registration	s to prosecute this application and to tra	nsact all business in the Patent Place Customer Number Bar Code Label Here	
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		Registration	
Number	Name	Number	
,481	Thomas C. Meyers	36,989	
5,748	Joseph B. Milstein	42,897	
•	1	42,898	
· ·	1	44,244	
•	1	27,829	
•	1	45,281	
•	1	40,137	
•	1 ~	41,274	
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•	1	43,093	
•	1	39,382	
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•	1	38,349	
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•		44,372	
•	1	11,074	
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	,321 14,559 ,640 ,526 ,471 ,116 ,722 ,545 ,574 ,678 ,047 ,059 ,670 ,334 14,830 ,574 ,060 ,702 ,704 ,870	David G. Miranda Ronda P. Moore Edmund R. Pitcher Dianne M. Rees Kurt Rauschenbach Michael A. Rodriguez R. Stephen Rosenholm Michael J. Schmelzer J. Scott Southworth Christopher W. Stamos Joseph P. Sullivan Robert J. Tosti Thomas A. Turano Michael J. Twomey Christine C. Vito Patrick R.H. Waller Vin P. Zhang s named on supplemental Registered Practitioner Information shees	

Declaration and Power of Attorney tor Utility or Design Patent Application Serial No.:

Page 3 of 3



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First	Inventor:		□ A	petition has be	en filed fo	r this unsign	ed invento		
Given Na	me (first and mid	dle [if any])		Family Name or Surname					
Hiroaki				Kawasaki					
Inventor's Signature	Hwad	w Kawasa	res	Date			18	Jan. 2000	
Street Address	3-20-2, Aoba			Citizenship	Japa	nese			
	City	Higashi-Ku	State	Fukuoka	Zip		Country	Japan	
Post Office Address			·		·				
	City		State		Zip		Country		
Additional inventor	s are being name	i on the supp	lementa	l Additional Ir	ventor(s)	sheet(s) attac	ched hereto		
Name of Additional Jo	oint Inventor, if a	ıny:		A petition	has been f	iled for this	unsigned i	ventor	
Given Na	ame (first and mid	idle [if any])		Family Name or Surname					
Ann Graybiel									
Inventor's Signature				Date					
Street Address	Boyce Farm Ro	oad		Citizenship		p US	US		
	City	Lincoln	State	MA	Zip	01773	Country	USA	
Post Office Address			L			····			
	City		State		Zip		Country		
Name of Additional Jo	oint Inventor, if a	ıny:		A petition	on has been	n filed for th	is unsigne	linventor	
Given Na	me (first and mid	dle [if any])		Family Name or Surname					
David				Housman					
Inventor's Signature						Date			
Street Address	64 Homer Stree	et				Citizenshi	p US		
	City	Newton	State	MA	Zip	02458	Country	USA	
Post Office Address		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		,				
	City		State		Zip		Country		

DECLARAT	ION AND POWE	R Attorne	y Docket No.	MIT-103	1 1/2	
	NEY FOR UTILIT		amed Inventor	Kawasaki	(CO) 70	
OR	RDESIGN		CC	OMPLETE IF KNOW	VN PADEMARN	
PATENT	APPLICATION	Applica	ation Serial Number	09/422,999		
☐ Declaration	□ Declaration	Filing I	Date	10/22/99		
Submitted with	Submitted after Initi	ial Group	Art Unit	1643		
Initial Filing Filing (surcharge 37 CFR 1.16(e) required)			Examiner Name Not yet assigned			
My residence, post of I believe I am the orig	nventor, I hereby declar ffice address, and citizens ginal, first and sole inven	ship are as stated tor (if only one n	ame is listed below) o	r an original, first and	joint inventor (if p	
names are listed below	w) of the subject matter v				ntion entitled:	
	enes Integrating S	Signal Transduction Pa	thways			
the specification of w	high	(Title	of the Invention)			
is attached h						
اليا	PR	9	as United States Appli	cation Serial Number	or PCT Internation	
Application Number	09/422,999	and was amen	ded on (MM/DD/YYY	n <u> </u>	(if applicable).	
I hereby state that I have by any amendment sp	ave reviewed and underst becifically referred to abo	tand the contents	of the above identified	specification, includ	ling the claims, as a	
	ty to disclose information					
	n priority benefits under of any PCT international	application which	h designated at least o	ne country other than	the United States of ent or inventor's cer	
certificate, or 365(a) of America, listed below or of any PCT interna	ational application having		ore that of the applicat			
certificate, or 365(a) of America, listed below or of any PCT interna Prior Foreign Applie	ational application having	g a filing date bef	Foreign Filing Da	e Priority	Certified Copy A	
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certificate, or 365(a) of America, listed below or of any PCT interna Prior Foreign Applie Number(s)	ational application having cation Co	g a filing date bef untry	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy A	
certificate, or 365(a) of America, listed below or of any PCT international Prior Foreign Applie Number(s) Additional I hereby claim the ber	cational application having cation Co Co foreign application number cation application number cation number cati	untry pers are listed on a get of any United	ore that of the applicate Foreign Filing Date (MM/DD/YYYY) a supplemental priority d States provisional applications of the supplemental priority of of the supplemental priori	Not Claimed Not Claimed	Certified Copy A	
certificate, or 365(a) of America, listed below or of any PCT international Prior Foreign Applie Number(s) Additional I hereby claim the best Application Set	cational application having cation Co	untry pers are listed on a get of any United	Foreign Filing Dan (MM/DD/YYYY)	Not Claimed Output	Certified Copy A YES	

Declaration and Power of Atto Serial No.: 09422,999

Page 2 of 3

y for Utility or Design Patent Application



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and insoftre as the subject matter of each of the claims of this application is not disclosed in the price United States of

-	n or PCT Parent nber	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
Additional U.S. or PCT intern	ational application numbers are listed or	n a supplemental priority data sheet atta	ched hereto.
	oint the following registered practitione herewith: Customer Number OR Registered practitioner	rs to prosecute this application and to tr	Place Customer Number Bar Code Label Here
NI	Registration		Registration
Name	Number	Name	Number
Steven M. Bauer John V. Bianco	31,481	Thomas C. Meyers	36,989
Isabelle A.S. Blundell	36,748	Joseph B. Milstein	42,897
Maureen A. Bresnahan	43,321 P-44,559	David G. Miranda	42,898
Michael H. Brodowski		Ronda P. Moore	44,244
Jennifer A. Camacho	41,640	Edmund R. Pitcher	27,829
Joseph A. Capraro, Jr.	43,526	Dianne M. Rees	45,281
Joseph A. Capraro, Jr. John J. Cotter	36,471	Kurt Rauschenbach	40,137
	38,116	Michael A. Rodriguez	41,274
Jennifer L. Dupre John V. Forcier	41,722	R. Stephen Rosenholm	P-45,283
Michael Giannetta	42,545	Michael J. Schmelzer	43,093
	42,574	J. Scott Southworth	39,382
Duncan A. Greenhalgh William G. Guerin	38,678	Christopher W. Stamos	35,370
Ira Heffan	41,047	Joseph P. Sullivan	P-45,349
Danielle L. Herritt	41,059	Robert J. Tosti	35,393
Elizabeth E. Kim	43,670	Thomas A. Turano	35,722
Mi Kim	43,334	Michael J. Twomey	38,349
Douglas J. Kline	P-44,830	Christine C. Vito	39,061
John D. Lanza	35,574	Patrick R.H. Waller	41,418
Fimothy P. Linkkila	40,060	Yin P. Zhang	44,372
Kurt W. Lockwood	40,702		
LUIL W. LUCKWOOU	40,704 42.870		

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Declaration and Power of Attorney for Utility or Design Patent Application Serial No.:

Page 3 of 3



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First	Inventor:		☐ A	petition has be	en filed fo	or this unsign	ned invento	r	
Given Na	me (first and mic	ldle [if any])		Family Name or Surname					
Hiroaki				Kawasaki					
Inventor's Signature				Date					
Street Address	3-20-2, Aoba	20-2, Aoba				Citizenship	Japa	inese	
· · · · · · · · · · · · · · · · · · ·	City	Higashi-Ku	State	Fukuoka	Zip		Country	Japan	
Post Office Address									
	City		State		Zip		Country		
Additional inventor	rs are being name	d on the supp	lementa	l Additional Ir	ventor(s)	sheet(s) attac	ched hereto		
Name of Additional Jo	oint Inventor, if	any:	[A petition	has been f	iled for this	unsigned i	nventor	
Given N	ame (first and mi	ddle [if any])		Family Name or Surname					
Ann									
Inventor's Signature	Anth	handin	L			Date 1.19. 200			
Street Address	Boyce Farm R	oad		Citizenship					
	City	Lincoln	State	MA	Zip	01773	Country	USA	
Post Office Address			-						
	City		State		Zip		Country		
Name of Additional Jo	oint Inventor, if	any:		A petition	on has bee	n filed for th	is unsigned	inventor	
Given Na	me (first and mic	ldle [if any])			Fa	mily Name o	or Surname		
David				Housman					
Inventor's Signature						Date			
Street Address	64 Homer Stre	et		·		Citizenshi	p US		
	City	Newton	State	MA	Zip	02458	Country	USA	
Post Office Address				•					
	City		State		Zip		Country		

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DECLARA	TION AND POWER	Attorney Docket No.	MIT-103
OF ATTORNEY FOR UTILITY		First Named Inventor	Kawasaki
Ol	R DESIGN	C	OMPLETE IF KNOWN
PATENT	APPLICATION	Application Serial Number	09/422,999
Declaration	□ Declaration	Filing Date	10/22/99
Submitted with	Submitted after Initial	Group Art Unit	1643
Initial Filing	Filing (surcharge	Examiner Name	Not yet assigned
	37 CFR 1.16(e) required)		{

As a below named inventor, I hereby declare that:									
My residence, post office addres	My residence, post office address, and citizenship are as stated below next to my name.								
believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:									
	Genes Integrating Signal Transduction Pathways								
(Title of the Invention)									
the specification of which	he specification of which								
is attached hereto OR									
was filed on (MM/DD/YYYY)	was filed on 10/22/99 as United States Application Serial Number or PCT International								
Application Number 09/42	22,999	and was amer	nded on (MM/DD/YYYY)		(if applicable).				
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.									
I acknowledge the duty to disclo	se information	n which is materi	al to patentability as define	ed in 37 CFR 1.56					
I hereby claim foreign priority be certificate, or 365(a) of any PCT America, listed below and have a or of any PCT international appl	`international also identified	application which below, by check	th designated at least one co	ountry other than populication for pate	the United States of nt or inventor's certificate,				
Prior Foreign Application			Foreign Filing Date	Priority	Certified Copy Attached?				
Number(s)	Co	untry	(MM/DD/YYYY)	Not Claimed	YES NO				
			a supplemental priority dat						
I hereby claim the benefit under		<u> </u>		tion(s) listed belo	ow.				
Application Serial Numb	per(s)	Filing Da	ate (MM/DD/YYYY) 10/23/98		al provisional application				
60/105,507			10/23/98	serial nu	mbers are listed on a ental priority data sheet				

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09422,999

Page 2 of 3



DECLARATION - Utility or Design Patent Application

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PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which i material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.						
U.S. Parent Application o Serial Numbe	or PCT Parent P	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)			
Additional U.S. or PCT internation	onal application numbers are listed on	a supplemental priority data sheet attack	hed hereto.			
As a named inventor, I hereby appoin and Trademark Office connected ther		s to prosecute this application and to tra	unsact all business in the Patent Place Customer Number Bar Code Label Here			
	Registered practitioner((s) name/registration number listed b				
Name	Registration Number	Name	Registration Number			
Steven M. Bauer John V. Bianco Isabelle A.S. Blundell Maureen A. Bresnahan Michael H. Brodowski Jennifer A. Camacho Joseph A. Capraro, Jr. John J. Cotter Jennifer L. Dupre John V. Forcier Michael Giannetta Duncan A. Greenhalgh William G. Guerin Ira Heffan Danielle L. Herritt Elizabeth E. Kim Mi Kim Douglas J. Kline John D. Lanza Timothy P. Linkkila Kurt W. Lockwood Marianne McLaughlin	31,481 36,748 43,321 P-44,559 41,640 43,526 36,471 38,116 41,722 42,545 42,574 38,678 41,047 41,059 43,670 43,334 P-44,830 35,574 40,060 40,702 40,704 42,870	Thomas C. Meyers Joseph B. Milstein David G. Miranda Ronda P. Moore Edmund R. Pitcher Dianne M. Rees Kurt Rauschenbach Michael A. Rodriguez R. Stephen Rosenholm Michael J. Schmelzer J. Scott Southworth Christopher W. Stamos Joseph P. Sullivan Robert J. Tosti Thomas A. Turano Michael J. Twomey Christine C. Vito Patrick R.H. Waller Yin P. Zhang	36,989 42,897 42,898 44,244 27,829 45,281 40,137 41,274 P-45,283 43,093 39,382 35,370 P-45,349 35,393 35,722 38,349 39,061 41,418 44,372			
	oners named on supplemental Regi	stered Practitioner Information shee	et attached hereto.			
Direct all correspondence to:	Patent Administrator Testa, Hurwitz & Thibeault, High Street Tower 125 High Street Boston, MA 02110 Tel. No.: (617) 248-7000 Fax No.: (617) 248-7100	, LLP				

Declaration and Power of Attorney for Utility or Design Patent Application Serial No.:

Page 3 of 3



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First l	Inventor:] A pe	tition has be	en filed fo	r this unsign	ed inve	entor	
Given Na	me (first and mid	dle [if any])			Family Name or Surname					
Hiroaki				К	awasaki					
Inventor's Signature				!			Date			
Street Address	3-20-2, Aoba						Citizenship		Japanese	
	City	Higashi-Ku	St	tate	Fukuoka	Zip		Countr	ry .	Japan
Post Office Address			J							
	City		St	tate		Zip		Counti	ry	
Additional inventor	rs are being name	d on the	supplen	nental A	Additional Ir	ventor(s)	sheet(s) attac	hed her	reto.	
Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor						entor				
Given N	ame (first and mi	ddle [if any])			Family Name or Surname					
Ann					Graybiel					
Inventor's Signature		· · · · · · · · · · · · · · · · · · ·			Date					
Street Address	Boyce Farm Ro	oad			Citizenship US			J S		
	City	Lincoln	S	tate	MA	Zip	01773	Count	try	USA
Post Office Address		<u>!</u>			<u> </u>					
	City		S	tate		Zip		Count	try	
Name of Additional J	oint Inventor, if	any:			☐ A petiti	on has bee	n filed for th	is unsig	gned in	nventor
Given Na	ame (first and mid	dle [if any])				Fa	mily Name o	or Surna	ame	
David		\bigcap		F	lousman					
Inventor's Signature	Dais	2 707	Isv	10			Date			
Street Address	64 Homer Stre						Citizenshi	ip l	US	
	City	Newton	S	tate	MA	Zip	9245	Count	try	USA
Post Office Address		<u> </u>			<u> </u>		57	4		
	City		S	State		Zip		Count	itry	



Applicant or Patentee: Kawasaki et al. Serial or Patent No.: 09/422,999

Attorney's Docket No.: MIT-103 (MIT Case #8251)

Filed or Issued: 10/22/99

For: Genes Integrating Signal Transduction Pathways

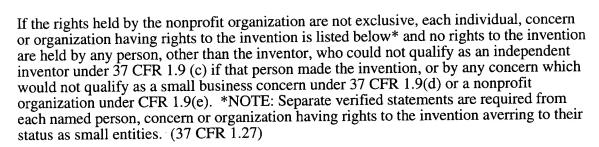


VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

	ESS OF ORGANIZATION:	Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, MA 02139
TYPE	OF ORGANIZATION	
(X)	UNIVERSITY OR OTHER IN	ISTITUTION OF HIGHER EDUCATION
()	TAX EXEMPT UNDER INTE (26 USC 501(a) and 501(c) (3	ERNAL REVENUE SERVICE CODE))
()	NONPROFIT SCIENTIFIC O STATE OF THE UNITED ST (NAME OF STATE (CITATION OF STATUTE	
()	WOULD QUALIFY AS TAX SERVICE CODE (26 USC 50 UNITED STATE OF AMERIC	EXEMPT UNDER INTERNAL REVENUE 1(a) and 501(c) (3)) IF LOCATED IN THE CA
()	WOULD QUALIFY AS NON UNDER STATUTE OF STATIF LOCATED IN THE UNITH (NAME OF STATE(CITATION OF STATUTE_	
organi section	ization as defined in 37 CFR 1.9	anization identified above qualifies as a nonprofit $\theta(e)$ for purposes of paying reduced fees under ed States Code with regard to the invention entitled a Pathways by inventor(s) Kawasaki et al. described
()	the specification filed herewith	1.
(x)	application serial no. 09/422,9	999 , filed <u>10/22/99</u> .
()	patent no, issue	ed
I hereb	by declare that rights under cont	ract or law have been conveyed to and remain with

the nonprofit organization with regard to the above identified invention.



NAME	
ADDRESS()INDIVIDUAL ()SMALL BUS	SINESS CONCERN ()NONPROFIT ORGANIZATION
NAME	
ADDRESS	THE PROPERTY OF THE PROPERTY O
()INDIVIDUAL ()SMALL BU	SINESS CONCERN ()NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING

Jarmila Z. Hrbek

TITLE IN ORGANIZATION

Patent Administrator and Office Manager, **Technology Licensing Office**

ADDRESS OF PERSON SIGNING

77 Massachusetts Avenue, Room NE25-230 Cambridge, MA 02139

____DATE 1/20/2000